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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/688,834	10/17/2000	Toshio Koga	Q60831	1858
7590 03/30/2009 SUGHRUE, MION, ZINN, MACPEAK & SEAS			EXAM	IINER
2100 Pennsylvania Avenue, N.W. Washington, DC 20037		MEINECKE DIAZ, SUSANNA M		
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2	UNITED STATES PATENT AND TRADEMARK OFFICE
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5	BEFORE THE BOARD OF PATENT APPEALS
6	AND INTERFERENCES
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9	Ex parte TOSHIO KOGA
10 11	
11 12	Appeal 2009-0815
13	Application 09/688,834
14	Technology Center 3600
15	reemiology center 5000
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17	Decided <sup>1</sup> : March 30, 2009
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20	
21	Before MURRIEL E. CRAWFORD, HUBERT C. LORIN and DAVID B
22	WALKER, Administrative Patent Judges.
23	CRAWFORD, Administrative Patent Judge.
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25	DECISION ON APPEAL
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<sup>&</sup>lt;sup>1</sup> The two-month time period for filing an appeal or commencing a civil action, as recited in 37 C.F.R. § 1.304, begins to run from the decided date shown on this page of the decision. The time period does not run from the Mail Date (paper delivery) or Notification Date (electronic delivery).

1	Appellant appeals under 35 U.S.C. § 134 (2002) from a final rejection
2	of claims 1 to 7. We have jurisdiction under 35 U.S.C. § 6(b) (2002).
3	
4	STATEMENT OF CASE
5	Appellant invented a vehicle onboard electronic toll collection
6	apparatus which includes a decision means for making a decision on when to
7	start collection information communication based on the detected speed of
8	the vehicle and the measured reception field intensity. (Specification 1, 6).
9	Claim 1 under appeal reads as follows:
10 11	1. A vehicle-onboard electronic toll collection apparatus, comprising:
12 13 14	(a) vehicle speed detecting means for detecting a speed of a motor vehicle which passes through a toll gate station equipped with
15	an electronic toll collection system; (b) communication means for exchanging electronic toll
16	collection information for settlement of toll charge/payment
17	transaction with said toll gate station upon passing through said toll
18 19	gate station; (c) measuring means for measuring reception field intensity of
20	the received electronic toll collection information within a
21	communication coverage area; and
22	(d) decision means for making decision on the basis of said
23	detected vehicle speed and said measured reception field intensity as
<ul><li>24</li><li>25</li></ul>	to a location within said communication coverage area where electronic toll collection information communication can be started
26	while sustaining favorable reception field intensity at said detected
27	vehicle speed, to thereby allow said communication means to perform
28	communication processing on the basis of result of said decision,
29	wherein said vehicle-onboard electronic toll collection
30	apparatus comprises elements (a)-(d), and
31	wherein said elements (a)-(d) are provided on a vehicle.
32	
33	The Examiner rejected claims 1 to 5 under 35 U.S.C. § 103(a) as
34	being unpatentable over Fuyama '376.

1	The Examiner rej	ected claims 6 and 7 under 35	U.S.C. § 103(a) as
2	being unpatentable over Fuyama '376 and Fuyama '267.		
3	The prior art relie	d upon by the Examiner in rej	ecting the claims on
4	appeal is:		
5	Fuyama	US 6,259,376 B1	Jul. 10, 2001
6	Fuyama	US 6,834,267 B1	Dec. 21, 2004
7			
8		ISSUE	
9	Has Appellant sho	own that the Examiner erred in	n finding that Fuyama
10	'376 discloses a decision	n means for making a decision	on when to start
11	collection information c	ommunication based on the de	etected speed of the
12	vehicle and the measure	d reception field intensity?	
13			
14		FINDINGS OF FACT	
15	Fuyama '376 dis	closes a vehicle-onboard elect	ronic toll collection
16	apparatus that includes a	a first sensor s1 and a second s	sensor s2 (Figure 1).
17	Fuyama '376 discloses t	hat one of the problems assoc	iated with electronic
18	toll devices is that two v	rehicles may communicate wit	th the communication
19	portion 17 of the toll app	paratus at the same time becau	ise the first vehicle is
20	traveling at a slow speed	and thus the two vehicles are	e in the communication
21	area 29 at the same time	(col. 4, ll. 63 to 66). To solve	e this problem, the
22	Fuyama '376 device sta	rts communication with a vehi	icle traveling less than
23	30 kilometers per hour a	fter the vehicle has passed sen	nsor s1 and after a
24	predetermined time inte	rval as measured by a timer 26	6 has elapsed.
25	However, if the vehicle	is traveling so fast that it will	reach the sensor s2

1	before the predetermined time interval has elapsed, i.e. if the vehicle is
2	traveling faster than 30 kilometers per hour, communication begins when the
3	vehicle has reached the sensor s2 (col. 5, 11. 30 to 50). There is no exact
4	speed detected as such, but the speed of the vehicle is related to whether the
5	predetermined time interval has elapsed before the vehicle reaches sensor s2
6	or not.
7	In addition, there is no decision made based on the speed of the
8	vehicle and the measured reception field intensity as to a location where the
9	electronic toll collection information communication can be started. Rather,
10	the start of electronic toll collection is triggered by a predetermined time
11	interval after the vehicle passes sensor s1 or by the vehicle reaching sensor
12	s2.
13	
14	PRINCIPLES OF LAW
15	In rejecting claims under 35 U.S.C. § 103, it is incumbent upon the
16	Examiner to establish a factual basis to support the legal conclusion of
17	obviousness. See In re Fine, 837 F.2d 1071, 1073 (Fed. Cir. 1988).
18	
19	ANALYSIS
20	We will not sustain the rejections of the Examiner. The Appellant and
21	Examiner disagree on whether Fuyama '376 discloses a vehicle speed
22	detection means and whether Fuyama '376 discloses the claimed decision
23	means. Even if the Examiner is correct that the sensor arrangement of
24	Fuyama '376 detects the speed of a vehicle, Fuyama '376 does not disclose
25	the decision means that makes a decision as to where within the

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1	communication coverage area to start the communication of toll collection
2	information based on the reception field intensity and the detected vehicle
3	speed. Rather, in Fuyama '376, when a car is moving slowly, less than 30
4	kilometers per hour, the communication is begun after a predetermined time
5	has elapsed. The decision to start communication is not dependent on the
6	reception field intensity and is not related to a location of the vehicle within
7	the communication coverage area. When a car is moving fast, more than 30
8	kilometers per hour, communication is always begun when the vehicle
9	reaches the second sensor s2 and is not dependent on the reception field
10	intensity.
11	In view of the foregoing, we will not sustain the Examiner's rejection
12	of claim 1 and claims 2 to 5, dependent thereon, under 35 U.S.C. § 103(a) as
13	being unpatentable over Fuyama '376. We will also not sustain the
14	Examiner's rejection of claims 6 and 7 under 35 U.S.C. § 103(a) as being
15	unpatentable over Fuyama '376 and Fuyama '267, because the Examiner
16	relies on Fuyama '376 for teaching the claimed decision means.
17	
18	CONCLUSION OF LAW
19	On the record before us, Appellant has shown that the Examiner erred
20	in rejecting the claims on appeal.
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22	DECISION
23	The decision of the Examiner is <u>reversed</u> .
24	
25	<u>REVERSED</u>

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